

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A partitioned block frequency domain adaptive filter ~~for filtering an input signal in dependence on a control signal~~, the adaptive filter comprising a plurality of parallel arranged filter partitions, each filter partition being arranged for modeling a part of an impulse response of the adaptive filter, each filter partition having update means for updating filter coefficients of that filter partition by circular convoluting a signal representative of anthe input signal and a signal representative of athe control signal, the update means comprising constraint means for intermittently constraining the filter coefficients by eliminating circular wrap-around artifacts of the circular convolution, ~~wherein characterized in that~~ the update means is~~are~~ arranged for updating the filter coefficients in dependence on at least part of the circular wrap-around artifacts of adjacent update means.

2. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 1, ~~wherein characterized in that~~ the update means is~~are~~ arranged for updating the filter coefficients in dependence on the at least part of the circular wrap-around artifacts only when the filter coefficients are constrained.

3. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 1 or 2, ~~wherein characterized in that~~ the update means comprise selection means for selecting the at least part of the circular wrap-around artifacts.

4. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 3, ~~wherein characterized in that~~ the selection means ~~is~~^{are} arranged for selecting the at least part of the circular wrap-around artifacts when the filter coefficients are not constrained by the constraint means.

5. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 3 or 4, ~~wherein characterized in that~~ the selection means are arranged for selecting those circular wrap-around artifacts which are substantially equal to at least part of the result of a linear convolution of the signal representative of the input signal and the signal representative of the control signal.

6. (Currently Amended) The partitioned block frequency domain adaptive filter according to any one of Claims 3 to 5, ~~wherein characterized in that~~ the selection means comprise an approximation of a rectangular constraint window.

7. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 6, ~~wherein characterized in that~~ the approximation comprises a sinusoid window.

8. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 6 or 7, ~~wherein characterized in that~~ the selection means further comprise a raised cosine window and/or a raised inverse cosine window for selecting the at least part of the circular wrap-around artifacts.

9. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 6, ~~wherein characterized in that~~ time domain values of the approximation are larger than or equal to zero and in that the approximation in time domain has substantially high slopes near the positions which correspond to the positions of the transitions in a rectangular constraint window.

10. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 9, ~~wherein characterized in that~~ frequency domain values of the approximation each comprise a real value and mutually conjugate imaginary values, whereby at least part of the imaginary values form a row of numbers, the numbers being obtainable from one another by multiplication.

11. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 10, ~~wherein characterized in that~~ the frequency domain values of the approximation are defined as:

$$(G^{2N})_i = \begin{cases} 2N \cdot a & \text{for } i = 0 \\ 0 & \text{for } 0 < i < 2N, i \text{ even} \\ -\frac{2N \cdot a}{2} \left(m^{-\left(\frac{i-1}{2}\right)} - m^{-\left(\frac{2N-1-i}{2}\right)} \right) & \text{for } 0 \leq i < 2N, i \text{ odd} \end{cases}$$

with i being an index number, m being a multiplication factor, a being a mean value.

12. (Currently Amended) The partitioned block frequency domain adaptive filter according to Claim 11, ~~wherein characterized in that~~ m is substantially equal to 2.166.

13. (Currently Amended) An acoustic echo canceller comprising a partitioned block frequency domain adaptive filter ~~for filtering an input signal in dependence on a control signal~~, the adaptive filter comprising a plurality of parallel arranged filter partitions, each filter partition being arranged for modeling a part of an impulse response of the adaptive filter, each filter partition having update means for updating filter coefficients of that filter partition by circular convoluting a signal representative of ~~an~~the input signal and a signal representative of ~~a~~the control signal, the update means comprising constraint means for intermittently constraining the filter coefficients by eliminating circular wrap-around artifacts of the circular convolution, ~~wherein characterized in that~~ the update means ~~is~~are arranged for updating the filter coefficients in dependence on at least part of the circular wrap-around artifacts of adjacent update means.

14. (Currently Amended) The acoustic echo canceller according to Claim 13, ~~wherein characterized in that~~ the update means ~~is~~are arranged for updating the filter coefficients in dependence on the at least part of the circular wrap-around artifacts only when the filter coefficients are constrained.

15. (Currently Amended) A method of adaptively filtering an input signal ~~in dependence on a control signal~~, the method comprising the steps of:

- partitioning ~~an~~the input signal into partitions,
 - for each partition updating filter coefficients by circular convoluting a signal representative of the input signal and a signal representative of ~~a~~the control signal,
 - for each partition intermittently constraining the filter coefficients by eliminating circular wrap-around artifacts of the circular convolution,
- ~~characterized in that the method further comprises the step of~~ updating the filter coefficients in dependence on at least part of the circular wrap-around artifacts of adjacent partitions.

16. (Currently Amended) The method according to Claim 15, ~~wherein~~characterized in that the step of updating the filter coefficients in dependence on the at least part of the circular wrap-around artifacts is performed only when the filter coefficients are constrained.